



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	M.TECH Dual Degree 5Y	IIT Kharagpur	8.44 / 10
2015	Central Board of Secondary Education	D.A.V. Model School, Durgapur	96.4%
2013	Indian Council of Secondary Education	St. Xavier's School, Durgapur	94.2%

INTERNSHIPS AND PROJECTS

Enhancing application testing with AI	The Honeynet Project under Google Summer of Code	April, 2018 - Ongoing
<ul style="list-style-type: none">Responsible for enhancing coverage of Android application testing bot using machine learning and AI techniquesImplemented natural language processing and deep learning methods along with graph convolutional networks for creating embeddings of UI screens of applications		
Virtualization of Head Unit	Mercedes Benz Research & Development, India	May, 2018 - July, 2018
<ul style="list-style-type: none">Responsible for enabling virtualization toolkit in remote target devices which includes NVIDIA Drive CX2 and Harman NTG6 to host them on TCP/IP protocolImplemented Yocto based operating system package installer on Linux kernel and added VirtualGL and TurboVNC		
Algorithmic Toolkit for Elections	AOSSIE under Google Summer of Code	April, 2017 - August, 2017
<ul style="list-style-type: none">Responsible for implementing various voting algorithms in Scala and Play frameworkMade it available to everyone in an open sourced manner so that it can be tested by the Government of Australia		

COMPETITION/CONFERENCE

Special Prize for Technical Innovative Approach	Hack.Bangalore, Daimler	January, 2018
<ul style="list-style-type: none">Implemented vehicle-to-vehicle communication module for retro-fitting in old vehicles so that all the vehicles on road can communicate without the need of internetResponsible for the software stack consisting of the Android application which can communicate with hardware module and a Flask based web application for data collection		
Finalist	Future Datathon, Future Group	December, 2017
<ul style="list-style-type: none">Ranked 6th all over India in a data analytics competition held by Future Group, the ones behind the offline commerce behemoth, Big Bazaar by implementing clustering and recommendation based algorithms to help determine the types of customers visiting Big Bazaar and accordingly suggest products to them		
National Finalists	Hult Prize India Finals	January, 2017
<ul style="list-style-type: none">Ideation and major work was done on 'Restoring the rights and dignity of 10 million refugees by 2022'Worked on alleviating the lack of affordable education, in the form of a solar-powered bag with a barebones PC		
Category Winners	Accenture Innovation Jockeys	October, 2016
<ul style="list-style-type: none">Deployed a machine learning model on the web, using IBM Bluemix as the platformTrained the model to learn reported cases of corruption and suggest relevant laws/actions to end users		

SKILLS AND EXPERTISE

Proficient: C, C++, Python, R, Ubuntu, Tensorflow, PyTorch, Keras

Intermediate: SciPy, Scikit-learn, Matlab, MySQL, Android, Yocto

POSITIONS OF RESPONSIBILITY

Organizing Member	TEDx IIT Kharagpur	April, 2016 - March, 2017
<ul style="list-style-type: none">Responsible for organizing the 5th edition of TEDx, an independently organized TED event at IIT Kharagpur		
Student Member	Technology Transfer Group, IIT Kharagpur	April, 2016 - April, 2017
<ul style="list-style-type: none">Worked for identifying potential patentable invention by collaborating with individuals and professors and helped them in the patent filing and commercialization		

EXTRA CURRICULAR ACTIVITIES

- Captain of Bronze winning team in Technology Quiz, Interhall General Championship 2017-18
- Captain of Gold winning team in Product Design, Interhall General Championship 2017-18
- Finalist in Debasish Dash Memorial IT Quiz at Bhubaneshwar, 2017
- Active Member of Kharagpur Data Analytics Group and The Street, Finance Club of IIT Kharagpur

COURSEWORK INFORMATION

Multivariate Calculus, Programming and Data Structures, Introduction to Electronics, Corporate Finance, Signals and Systems, Probability and Stochastic Processes, Regression Modelling, Digital Signal Processing, Stochastic Processes in Finance*, Digital Image Processing*, Machine Intelligence and Expert Systems*, Information Retrieval*